

(12) **United States Patent**
Reynolds

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(54) **DISPENSER WITH DISCRETE DISPENSE CYCLES**

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See application file for complete search history.

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(57) **ABSTRACT**

A dispenser includes a pump that, upon actuation, progresses through a discrete dispense cycle to dispense a discrete dose of product. The dispenser further includes an actuating mechanism serving to actuate the pump, and a dispenser controller that controls operation of the actuation mechanism. The discrete dose is less than a desired dose. When the dispenser controller receives a single dispense request, the dispenser controller causes the actuating mechanism to actuate the pump through multiple discrete dispense cycles so as to dispense multiple discrete doses to achieve a dispensing of the desired dose.

16 Claims, 3 Drawing Sheets

